

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
13 October 2005 (13.10.2005)

PCT

(10) International Publication Number
WO 2005/096076 A1

(51) International Patent Classification⁷: **G02F 1/025**

CH-1018 Lausanne (CH). IONESCU, Mihai, Adrian [RO/CH]; Av. Victor-Ruffy 16bis, CH-1014 Lausanne (CH).

(21) International Application Number:
PCT/IB2005/051049

(74) Agent: **ROLAND, André**; c/o André Roland S.A., Avenue Tissot 15, P.O. Box 1255, CH-1001 Lausanne (CH).

(22) International Filing Date: 29 March 2005 (29.03.2005)

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(26) Publication Language: English

(30) Priority Data:
PCT/CH2004/000197
30 March 2004 (30.03.2004) CH

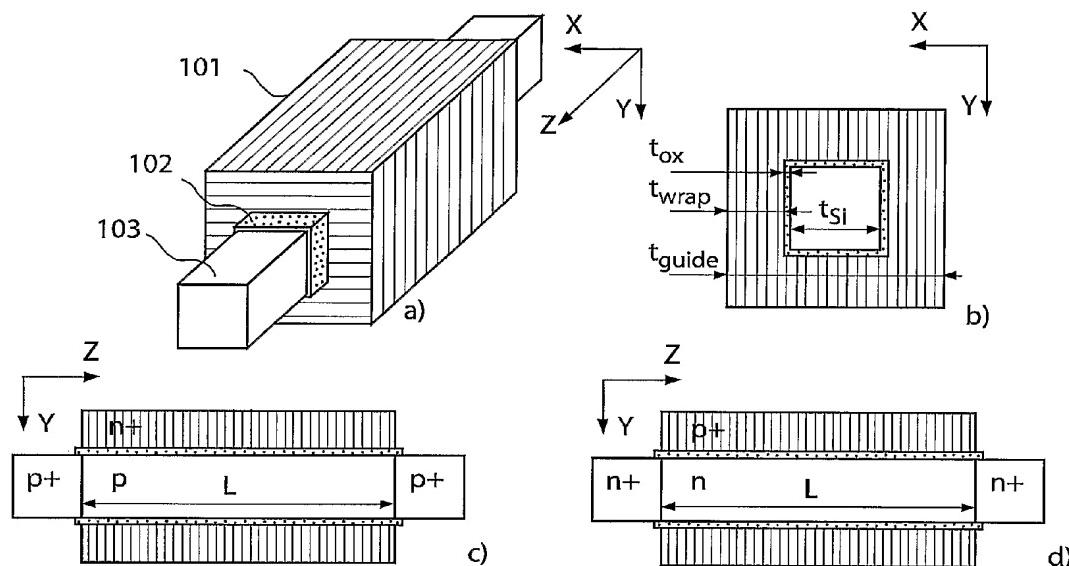
[Continued on next page]

(71) Applicant (for all designated States except US): ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE (EPFL) [CH/CH]; CM-Ecublens, CH-1015 Lausanne (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MOSELUND, Kirsten** [DK/CH]; av. de la Dôle 9, CH-1005 Lausanne (CH). **DAINESI, Paolo** [IT/CH]; ch. de la Lisière 6,

(54) Title: LIGHT PHASE MODULATOR



(57) Abstract: The invention relates to a light phase modulator, which is based on a multi-gate transistor, sandwiching a Silicon-on-Insulator manowine used as an optical waveguide.

WO 2005/096076 A1



Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.